## (19) World Intellectual Property Organization International Bureau



## | 1831 | 1837 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 1838 | 183

(43) International Publication Date 1 September 2005 (01.09.2005)

**PCT** 

## (10) International Publication Number WO 2005/080523 A1

- (51) International Patent Classification<sup>7</sup>: C08F 297/04, A61L 15/58
- C09J 153/02,
- (21) International Application Number:

PCT/EP2005/050614

- (22) International Filing Date: 11 February 2005 (11.02.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 04100665.1

19 February 2004 (19.02.2004)

- (71) Applicant (for all designated States except US): KRATON POLYMERS RESEARCH B.V. [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE KEYZER, Noël, Raymond, Maurice [BE/BE]; Kraton Polymers Research S.A., Monnet Centre, Avenue Jean Monnet 1, B-1348 Ottignies - Louvain-La-Neuve (BE). VAN DIJK, Cornelis, Martinus [NL/NL]; Kraton Polymers Research B.V., Badhuisweg 3, NL-1031 CM Amsterdam (NL).
- (74) Agent: KORTEKAAS, Marcel; Kraton Polymers Research B.V., Intellectual Property Services, P.O. Box 37666, NL-1030 BH Amsterdam (NL).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOW VISCOSITY HOT-MELT ADHESIVE COMPOSITION FOR NON-WOVENS

(57) Abstract: Low hot-melt adhesive compositions used in non-woven assemblies, comprising: a) 100 parts by weight of a block copolymer of the formula S-(I/B)-S, wherein S represents a predominantly poly(styrene) block and (I/B) represents a polymer block obtained by at random copolymerization of a mixture of predominantly isoprene and butadiene in a weight ratio in the range of from 60:40 to 40:60, wherein the total block copolymer has an apparent molecular weight in the range of from 124.000 to 145.000 and has a poly(styrene) content of from 30 to 34 wt% and a coupling efficiency of from 60 to 100 %, b) from 250 to 300 parts by weight of a tackifying resin, c) from 5 to 150 parts by weight of a plasticizer, and d) from 1 to 3 parts by weight of auxiliaries, such as stabilizers and/or antioxidants, and disposable articles, comprising at least a non-woven element and assembled by the use of said low hot-melt adhesive compositions as well as block copolymers used therein.

